

nc? Page 14, after "data." insert --The blank is loaded in the machine in step 8.--.

Page 16, line 4, change "C" to --C'--.

IN THE CLAIMS:

Please cancel claims 2 and 30.

Please amend the claims as follows:

B1 Sub G17
1. (Amended) A method of forming a custom-made insole comprising the steps
of:
randomly positioning a foot to be measured on a laser scanning station;
passing at least one laser scanning unit along an undersurface of the foot;
scanning the undersurface of the foot with the at least one laser scanning unit by
directing at least one line of laser light along the undersurface;
measuring surface coordinates of the undersurface detected by the at least one
laser scanning unit;
processing the [measure] measured surface coordinates;
transmitting the processed measured surface coordinates to a data processing
unit; and
milling a custom-made insole based on the transmitted surface coordinates.

B2 Sub G17
3. (Amended) The method of claim [2] 1, wherein the step of scanning the
undersurface of the foot comprises directing a non-focused fan-shaped line of laser light
along the undersurface and [edges] sides of the foot.

Claim 4, line 1, change "2" to --1--.

B3 Sub G17
6. (Twice Amended) The method of claim [5] 4, wherein a plurality of
laser scanning units are passed along [an] the undersurface and sides of the foot.

B4 Sub G1 11. (Amended) The method of claim 10, wherein the movement of the router and tray along the first, second and third axes of movement is determined by the measured surface coordinates [transmitted to the computer].

Sub D2 B5 13. (Amended) A system for forming a custom-made insole, comprising:
at least one scanning station for supporting a foot to be measured, the at least one scanning station including at least one movable laser scanning unit for determining coordinates of an undersurface of the foot by directing at least one line of laser light along the undersurface;

at least one milling station in communication with the scanning station, the at least one milling station including a milling assembly for forming the custom-made insole; and

control means for controlling the operation of the milling assembly based upon the coordinates determined by the at least one laser scanning unit.

B6 Sub B1 16. (Amended) The system of claim 15, wherein the base is made of tempered, safety glass and the at least one laser scanning unit emits a fan of laser light through the glass to measure the undersurface and [edges] sides of the foot.

B7 Sub D5 22. (Amended) The system of claim [13] 21, wherein the milling assembly is disposed in an upper unit of the milling station.

B8 Sub B1 27. (Amended) The system of claim 26, further comprising a plurality of stepper motors in communication with the computer [means], wherein one

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and. stepper motor controls the movement of the router along the first axis of movement, a second stepper motor controls the movement of the router along the second axis of movement and a third stepper motor controls the movement of the tray along the third axis of movement.

BS Sub G1 29. (Amended) The system of claim 28, wherein the vacuum means includes an air plenum having an entrance located [in the vicinity of] at the milling assembly.

REMARKS

In response to the Office Action, claims 1, 3, 6, 11, 13, 16, 22, 27 and 29 have been amended. Claims 2 and 30 have been canceled. Accordingly, claims 1, 3, 4 and 6-29 are currently pending.

Subject to the Examiner's approval, drawing Figures 2, 15A, 15C and 20 will be corrected as shown in red on the attached sheets. Specifically in Figure 2, springs 34 have been indicated in the drawing. The Examiner has objected to Figure 9 stating that reference character 70 indicates the angled portion in the figure. However, in Figure 9 as originally filed reference numeral 70 is drawn to designate the plenum. Figure 15A has been corrected to show the bar mounts 122 for the rail 22 and support pole 23. Figure 15C has been amended to indicate the laser unit 100 previously shown in the figures as laser unit 100A and 100B. Figure 20 has been corrected to indicate the relay and connectors, reference numerals 136 and 138. The specification has been amended to describe reference numerals 55, 67 and 180 shown in the drawings as originally filed.